

OLIGONUCLEOTIDE DERIVATIVE AND PREPARATION THEREOF

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Abstract

NEW MATERIAL:An oligonucleotide derivative expressed by formula I (m and n respectively represents 0 or a natural number; R<1> represents divalent hydrocarbon residue; B represents base constituting the nucleotide).

USE:An oligonucleotide used as a non-radioactive hybridization probe or for immobilization in genetic engineering, transformable to a natural type oligonucleotide, recoverable after use, and easily synthesized.

PREPARATION:Protecting groups R<2> and COR<4>, and protecting groups of both basic parts and phosphoric acid groups in a compound expressed by formula II (R<0> is a protecting group of phosphoric acid part; R<2> is a protecting group of amino group; COR<4> is a protecting group of 3'-terminal hydroxyl group in nucleotide; B' is a base constituting the nucleotide which may be protected if necessary) are eliminated by suitable methods.

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